

**BOARD OF COUNTY COMMISSIONERS  
AGENDA ITEM SUMMARY**

Meeting Date: April 20, 2005  
~~March 16, 2005~~

Division: BOCC

Bulk Item: Yes ☐ No ☒

Department: DISTRICT FIVE

Staff Contact Person: **Donna Hanson**

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**AGENDA ITEM WORDING:** Discussion and approval to request from the Florida Keys Aqueduct Authority a transfer of wastewater authority from the south end of the 7-mile bridge to, but not including, the area served by the Key West Resort Utility or Key Haven Utilities.

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**ITEM BACKGROUND:** The FKAA has had over four years to complete Little Venice, Conch Key, and Bay Point. Only Little Venice has been completed with the exception of customer hookups. All these projects have exceeded \$16,000 per EDU of taxpayers' money. In contrast to this, Key West Resort Utilities provided 1,500 EDU's and an upgrade to AWT on their existing plant for \$438.00 per EDU. Monroe County will receive back over \$3,100,000 of the \$3,900,000 paid to this utility. This project was also completed in nine months and under budget. As a parallel bid process will only provide the two high bids, Monroe must be the one government agency requesting bids on the Big Coppitt, Rockland, and Cudjoe wastewater projects.

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**PREVIOUS RELEVANT BOCC ACTION:**

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**CONTRACT/AGREEMENT CHANGES:**

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**STAFF RECOMMENDATIONS:**

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**TOTAL COST:** N/A

**BUDGETED:** Yes ☐ No ☐

**COST TO COUNTY:** \_\_\_\_\_

**SOURCE OF FUNDS:** \_\_\_\_\_

**REVENUE PRODUCING:** Yes ☐ No ☐ **AMOUNT PER MONTH** \_\_\_\_\_ **Year** \_\_\_\_\_

**APPROVED BY:** County Atty ☒ OMB/Purchasing ☐ Risk Management ☐

**DIVISION DIRECTOR APPROVAL:**

  
COMMISSIONER MURRAY E. NELSON

**DOCUMENTATION:** Included ☒ Not Required ☐

**DISPOSITION:** \_\_\_\_\_

**AGENDA ITEM #** \_\_\_\_\_

**RESOLUTION NO. \_\_\_\_-2005**

**A RESOLUTION OF THE BOARD OF COUNTY COMMISSIONERS OF MONROE COUNTY, FLORIDA, AUTHORIZING REQUEST THAT FLORIDA KEYS AQUEDUCT AUTHORITY TRANSFER WASTEWATER TO MONROE COUNTY THE JURISDICTION FOR PROJECTS SOUTH OF THE 7-MILE BRIDGE TO, BUT NOT INCLUDING, THE AREAS CURRENTLY SERVED BY K W RESORT UTILITIES CORP. AND KEY HAVEN UTILITY CORPORATION.**

**WHEREAS**, the Florida Keys Aqueduct Authority has had over four years to complete the Little Venice, Conch Key and Bay Point wastewater treatment and sewerage projects; and

**WHEREAS**, the Florida Keys Aqueduct Authority has completed only the Little Venice project except for customer hook-ups; and

**WHEREAS**, the Florida Keys Aqueduct Authority has exceeded \$16,000 per EDU (Equivalent Dwelling Unit) of taxpayer's money on its projects; and

**WHEREAS**, K W Resort Utilities Corp. has been able to provide 1,500 EDU's and an upgrade to Advanced Wastewater Treatment on their existing plant at considerably less cost to the taxpayer, within nine months and under budget; and

**WHEREAS**, it is in the best interests of the public and the environment that every effort be taken by the Board of County Commissioners to reduce costs of wastewater treatment/sewerage projects and implement those projects with as much speed as possible;

**NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF MONROE COUNTY, THAT:**

1. Monroe County hereby requests that the Florida Keys Aqueduct Authority transfer to Monroe County all wastewater jurisdiction for the area of unincorporated Monroe County south of the 7-Mile Bridge to, but not including, the areas served by K W Resort Utilities Corp. (Mile Marker 5.5 and below) and Key Haven Utility Corporation.
2. This Resolution shall become effective upon the date of its adoption herein.
3. The Clerk is directed to mail copies of this resolution to Representative Ken Sorensen, the Secretary of the Department of Environmental Protection, the Florida Department of Environmental Protection Bureau Chief of Water Facilities, and the executive officer of the Florida Keys Aqueduct Authority.

**PASSED AND ADOPTED** by the Board of County Commissioners of Monroe County this 16th day of March, 2005.

Mayor Dixie M. Spehar \_\_\_\_\_  
 Mayor Pro Tem Charles "Sonny" McCoy \_\_\_\_\_  
 Commissioner Murray Nelson \_\_\_\_\_  
 Commissioner George Neugent \_\_\_\_\_  
 Commissioner David P. Rice \_\_\_\_\_

**(SEAL)**

Attest: Danny L. Kothage, Clerk

By: \_\_\_\_\_  
 Deputy Clerk

**BOARD OF COUNTY COMMISSIONERS OF  
 MONROE COUNTY, FLORIDA**

By: \_\_\_\_\_  
 MAYOR DIXIE M. SPEHAR

**MONROE COUNTY ATTORNEY  
 APPROVED AS TO FORM:**

*Suzanne A. Hutton*  
 SUZANNE A. HUTTON  
 ASSISTANT COUNTY ATTORNEY  
 Date: 3/11/05

**BOARD OF COUNTY COMMISSIONERS**

Mayor Dixie M. Spehar, District 1  
Mayor Pro Tem Charles "Sonny" McCoy, District 3  
George Neugent, District 2  
David P. Rice, District 4  
Murray E. Nelson, District 5

Commissioner Murray E. Nelson  
Dameron Building, Suite 2  
99198 Overseas Highway  
Key Largo, FL 33037  
Phone (305) 852-7175  
Fax (305) 852-7162  
Email: [boccdis5@monroecounty-fl.gov](mailto:boccdis5@monroecounty-fl.gov)

**STOCK ISLAND WASTEWATER**  
**KEY WEST RESORT UTILITIES**

<b>TOTAL EDU</b>	<b>1,500</b>
<b>TOTAL COST TO COUNTY</b>	<b>\$3,897,892.00</b>
<b>TOTAL RETURNED TO COUNTY</b>	
<b>1,500 X \$2,100</b>	<b><u>\$3,150,000.00</u></b>
	<b>\$ 747,892.00</b>
<b>TOTAL COST TO MONROE TAXPAYER</b>	
<b>PER EDU \$747,892 divided by 1,500</b>	<b>\$ 498.59</b>
<b>TOTAL PAID TO KWRU TO UPGRADE</b>	
<b>TO AWT</b>	<b>\$ 900,000.00</b>
<b>TOTAL CONNECTION FEE PER EDU</b>	<b>\$ 2,700.00</b>
<b>TOTAL FEE FOR MONTHLY MAINTENANCE</b>	<b>\$ 35.86</b>
<b>AVERAGE COST ON OTHER WASTEWATER</b>	
<b>PROJECTS PER EDU</b>	<b>\$16,000- \$18,000</b>
<b>AVERAGE CONNECTION FEE PER EDU</b>	<b>\$ 4,000 - 6,000</b>
<b>AVERAGE COST ON OTHER WASTEWATER</b>	
<b>MONTHLY MAINTENANCE</b>	<b>\$40.00 - \$60.00</b>

# Florida Keys Aqueduct Authority

Florida Keys Aqueduct Authority

## Boca Chica Community Service Area Wastewater Feasibility Study and Cost of Service Analysis





**DRAFT**

**SECTION 8**

**CONCLUSIONS AND RECOMMENDATIONS**

In order to provide a comprehensive feasibility study and cost of service analysis to provide wastewater service to the Boca Chica Community Service Area, several steps needed to be completed. The first of these was a determination and projection of the wastewater generation rates. A projected wastewater generation rate of 352,011 gallons per day was calculated for the Boca Chica Community Service Area. Next, the ability of existing wastewater systems within the service area needed to be evaluated. Although there is an existing wastewater treatment plant near the service area, no wastewater collection system existed within the service area nor is the existing wastewater treatment plant large enough to accommodate the projected wastewater flows without expansion.

Therefore, three alternatives to providing wastewater service for the Boca Chica Community Service Area were developed. An analysis of the facilities required for each alternative, based upon the two types of treatment processed under consideration, was then developed. Both estimated construction costs and estimated annual operation and maintenance costs were developed for each alternative under consideration. A series of ranking factors, including costs, were developed, and each wastewater service alternative was ranked against each of the ranking factors. From these rankings, and overall score was determined for each alternative.

Based on these overall scores, the alternative providing wastewater service via a FCAA Regional Plant using the USBF treatment option was ranked that highest. The alternative considering expansion of the Key West Resort Utility (KWRU) treatment plant using a USBF process was the second highest ranked option. A vacuum sewage collection system was determined to be the most feasible collection system option to utilize in conjunction with the FCAA Regional Plant. Effluent disposal will be via four shallow injection wells. The total estimated cost for construction of the collection system, 355,000 gallon per day regional treatment facility, and shallow injection wells is \$16,425,566. Estimated operation and maintenance costs are approximately \$136,880 per year.

The FCAA Regional Plant using USBF treatment will serve the Boca Chica Community Service area throughout the planning period of 2023 and will provide wastewater service in accordance with applicable rules and regulations. Thus, it is recommended that the FCAA proceed with the highest ranked alternative as funding will allow.

